

2 x 660MW MAITREE STPP

BOQ-CUM-PRICE SCHEDULE FOR DC BATTERY - PACKAGE

MAIN SUPPLY- LEAD ACID BATTERY (ANNEXURE-IA)

TENDER ENQUIRY REFERENCE NO. PE/PG/BIF/E-5804/2017 DATE 02.01.2018

FOR INDIAN BIDDERS						APPLICABLE FOR INDIAN BIDDERS (PRICES IN INR) (DELIVERY TERMS: FOR CHA GODOWN HALDIA PORT/ HALDIA PORT)								
SL NO	ITEM CODE (1)	ITEM DESCRIPTION/ SERVICE (2)	HSN/SAC CODE (3)	UOM (4)	TOTAL QTY (5)	UNIT EX-WORKS PRICE (including seaworthy packing) [INR] (6)	TOTAL EX- WORKS PRICE (including seaworthy packing (INR) (7)	FREIGHT CHARGES (8)		TOTAL PRICES (EX-WORKS + FREIGHT) (INR) (9)	APPLICABLE GST IN % ON (TOTAL EX WORKS + FREIGHT) BOTH (INR) (10)		TOTAL PRICE FOR SUPPLY AND SUPERVISION OF ERECTION & COMMISSIONING (INR) (11 = 9+10B)	REMARKS
								@ % OF TOTAL EX WORKS (8A)	AMOUNT IN (INR) (8B) =[7X8A]		9 = [7+8B]	GST RATE IN % ON (TOTAL EX WORKS + FREIGHT) (10A)		
A		220V BATTERY												
A.1	508-14001-A	BREAK UP DETAIL for 220V BATTERY 1		Set	4									For MAIN PLANT BATTERY
A.1.1		220V DC, AH capacity to be decided by bidder as per Annexure-II (Load duty cycle), 1.85 ECV, 108 cells, Lead-Acid plante High discharge type battery suitable For MAIN PLANT with all accessories listed as A.4 below	8507	Sets	4									If one string is not meeting the required AH capacity, two strings of 108 cells each shall be provided. The complete connectors required to connect two strings shall be in bidder's scope
A.1.2		Electrolyte (sulphuric acid for first filling plus 10% extra)	2807	Sets	4									
A.1.3		Wooden/ Metal racks properly treated with 3 coats of anti-acid paints	4415 / 7301	Sets	4									
A.1.4		Stand insulators plus 5% extra	4415	Lot	4									
A.1.5		Cell interconnectors (Inter cell, Inter row & Inter bank connectors) with 5% extra and end take-off with one no. extra	8507	Lot	4									
A.1.6		Lead coated connection hardware plus 5% extra	8507	Lot	4									
A.1.7		Cell numbering tags with fixing arrangement (1 Set)	3919	Lot	4									
A.1.8		Cable clamps with hardware	8507	Lot	4									
A.2	508-14002-A	BREAK UP DETAIL for 220V BATTERY 2		Set	2									For FGD/ FOPH BATTERY
A.2.1		220V DC, AH capacity to be decided by bidder as per Annexure-II (Load duty cycle), 1.85 ECV, 108 cells, Lead-Acid plante High discharge type battery suitable For FGD/ FOPH with all accessories listed as A.4 below	8507	Sets	2									
A.2.2		Electrolyte (sulphuric acid for first filling plus 10% extra)	2807	Sets	2									
A.2.3		Wooden/ Metal racks properly treated with 3 coats of anti-acid paints	4415 / 7301	Sets	2									
A.2.4		Stand insulators plus 5% extra	4415	Lot	2									
A.2.5		Cell interconnectors (Inter cell, Inter row & Inter bank connectors) with 5% extra and end take-off with one no. extra	8507	Lot	2									
A.2.6		Lead coated connection hardware plus 5% extra	8507	Lot	2									
A.2.7		Cell numbering tags with fixing arrangement (1 Set)	3919	Lot	2									
A.2.8		Cable clamps with hardware	8507	Lot	2									

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								@ % OF TOTAL EX WORKS (8A)	AMOUNT IN (INR) (8B) =[7X8A]		GST RATE IN % ON (TOTAL EX WORKS + FREIGHT) (10A)	TOTAL AMOUNT IN (INR) (10B) =[9X10A]			
A.3	508-14003-A	<u>BREAK UP DETAIL for 220V BATTERY 3</u>		Set	2										For RAW WATER INTAKE BATTERY
A.3.1		220V DC, AH capacity to be decided by bidder as per Annexure-II (Load duty cycle), 1.85 ECV, 108 cells, Lead-Acid plante High discharge type battery suitable For RAW WATER INTAKE with all accessories listed as A.4 below	8507	Sets	2										
A.3.2		Electrolyte (sulphuric acid for first filling plus 10% extra)	2807	Sets	2										
A.3.3		Wooden/ Metal racks properly treated with 3 coats of anti-acid paints	4415 / 7301	Sets	2										
A.3.4		Stand insulators plus 5% extra	4415	Lot	2										
A.3.5		Cell interconnectors (Inter cell, Inter row & Inter bank connectors) with 5% extra and end take-off with one no. extra	8507	Lot	2										
A.3.6		Lead coated connection hardware plus 5% extra	8507	Lot	2										
A.3.7		Cell numbering tags with fixing arrangement (1 Set)	3919	Lot	2										
A.3.8		Cable clamps with hardware	8507	Lot	2										
A.4		<u>LIST OF ACCESSORIES (Quantity mentioned is to be supplied for each battery bank seperately).</u>													Separately for U#1 MAIN PLANT, U#2 MAIN PLANT, FGD/ FOPH & RAW WATER INTAKE BATTERY
A.4.1		Hydrometer (in step of 0.005)	9025	Nos	1										
A.4.2		Set of hydrometer syringes (suitable for the vent holes in different cells)	9025	Nos	1										
A.4.3		Specific gravity correction chart	4901	Nos	1										
A.4.4		Thermometer for measuring electrolyte temperature	9025	Nos	1										
A.4.5		Wall mounting type holder for hydrometer and thermometer	8466	Nos	1										
A.4.6		Digital Cell testing voltmeter (3-0-3V)	9030	Nos	1										
A.4.7		Rubber apron	4015	Nos	1										
A.4.8		Pair of rubber hand gloves	4015	Nos	1										
A.4.9		Set of spanners	8204	Nos	1										
A.4.10		Cell lifting straps	8507	Set	1										
A.4.11		'No smoking' notice	3926	Nos	2										
A.4.12		Goggles (industrial)	9003	Nos	1										
A.4.13		Instruction card	4901	Nos	4										
A.4.14		Pocket Thermometer (digital Type)	9025	Nos	1										

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B	508-14010-A	E & C SPARES												
B.1		Gloves	4015	Set	6									
B.2		Vent Plugs	8507	Nos	15									
B.3		Intercell connectors	8507	Nos	15									
C	508-14016-A	SUPERVISION OF E&C												1 Visit & 4 Days each for U#1 MAIN PLANT, U#2 MAIN PLANT, FGD/ FOPH & RAW WATER INTAKE BATTERY
C.1		LUMP SUM CHARGES PER VISIT FOR ENGINEER (EXCEPT DAILY CHARGES)		VISIT	4									REFER NOTE-2 & 3
C.2		LUMP SUM DAILY CHARGES FOR ENGINEER		DAYS	16									REFER NOTE-2 & 3
D	508-14014-A	O & M SPARES FOR TROUBLE-FREE OPEARTION												
D.1		Complete dry cell	8507	Nos	28									9 Nos. each for U#1 MAIN PLANT & U#2 MAIN PLANT BATTERY and 5 Nos. each for FGD/ FOPH & RAW WATER INTAKE BATTERY
D.2		Inter cell connectors with hardware	8507	Nos	40									10 Nos. each for U#1 MAIN PLANT, U#2 MAIN PLANT, FGD/ FOPH & RAW WATER INTAKE BATTERY
D.3		Vent Plugs	8507	Nos	40									10 Nos. each for U#1 MAIN PLANT, U#2 MAIN PLANT, FGD/ FOPH & RAW WATER INTAKE BATTERY
D.4		Electrolyte level indicating float (for opaque containers only)	8507	Nos	40									10 Nos. each for U#1 MAIN PLANT, U#2 MAIN PLANT, FGD/ FOPH & RAW WATER INTAKE BATTERY
D.5		Stand insulators	4415	Nos	40									10 Nos. each for U#1 MAIN PLANT, U#2 MAIN PLANT, FGD/ FOPH & RAW WATER INTAKE BATTERY
D.6		Cell insulator	8507	Nos	40									10 Nos. each for U#1 MAIN PLANT, U#2 MAIN PLANT, FGD/ FOPH & RAW WATER INTAKE BATTERY

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E	508-14000-B	MANDATORY SPARES (Quantity mentioned is to be supplied for each battery bank seperately).												Separately for U#1 MAIN PLANT, U#2 MAIN PLANT, FGD/ FOPH & RAW WATER INTAKE BATTERY
E.1		Complete dry cell	8507		2% or 5 Nos. whichever is more									
E.2		Inter cell connectors with hardware	8507		5% or 10 Nos. whichever is more									
E.3		Vent Plugs	8507		5% or 10 Nos. whichever is more									
E.4		Electrolyte level indicating float (for opaque containers only)	8507		5% or 10 Nos. whichever is more									
E.5		Stand insulators	4415		5% or 10 Nos. whichever is more									
E.6		Cell insulator	8507		5% or 10 Nos. whichever is more									
GRAND TOTAL														
GRAND TOTAL (IN WORDS)														
PERCENTAGE OF TOTAL PRICE (COLUMN NO. 11) TO BE SOURCED FROM INDIA														

Notes:-

- BIDDERS TO QUOTE EITHER FOR LEAD ACID OR NI-CD BATTERY.
- AMOUNT PAYABLE FOR ENGINEER PER VISIT TO SITE = VISIT CHARGES AS PER SL. NO. C.1 ABOVE + (DAILY CHARGES AS PER SL. NO. C.2 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE).
- THE VISIT CHARGES SHALL BE INCLUSIVE OF CHARGES OF AIR FARE/ TRAIN FARE/ VISA FEES, BOARDING/ LODGING, LOCAL CONVEYANCE, MEDICAL, INSURANCE ETC.
- COPPER LUGS FOR CABLE TERMINATION AT BATTERY TERMINALS SHALL BE IN BIDDER'S SCOPE & CABLE SIZES SHALL BE INFORMED DURING DETAILED ENGINEERING.
- ONE BATTERY BANK COMPRISES OF 108 CELLS.
- O&M SPARES WHICH HAVE BEEN CONSIDERED AT 'D' ABOVE IS THE MINIMUM REQUIREMENT TO TAKE CARE OF THE EXTENDED WARRANTY. ANY ADDITIONAL ITEMS REQUIRED TO MEET THE EXTENDED WARRANTY REQUIREMENT ARE DEEMED TO BE INCLUDED BY THE BIDDER IN BID PRICE.